

AMENDMENT NO. 1 APRIL 2019
TO
IS 7749 : 2016 WALNUTS — SPECIFICATION

(First Revision)

(Page 1, clause 2) — Insert the following references at the appropriate place:

<i>IS No.</i>	<i>Title</i>
5887	Methods for detection of bacteria responsible for food poisoning
(Part 3) : 1999	General guidance on methods for the detection of <i>Salmonella</i> (second revision)
(Part 5) : 1976	Isolation, identification and enumeration of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i> (first revision)
14397 : 1996	Methods for detection, isolation and identification of pathogenic <i>E. coli</i> in foods
14988 (Part 1) : 2001	Microbiology of food and feeding stuffs — Horizontal method for detection and enumeration of <i>Listeria monocytogenes</i> :Part 1 Detection method

(Page 1, clause 3.2) — Substitute the following for the existing clause:

‘3.2 Foreign Matter — Extraneous matter, such as dirt, soil, sand, etc.’

(Page 1, clause 3.4) — Substitute the following for the existing clause:

‘3.4 Decay — Resulting from the action of microbes and insects.’

[Page 1, clause 4.1.1.1 g)] — Substitute the following for the existing clause:

‘g) free from pests and their damages; and’

[Page 1, clause 4.1.1.2 d)] — Substitute the following for the existing clause:

‘d) free from pests;’

Amendment No. 1 to IS 7749 : 2016

[Page 2, clause 4.2.1.1 k)] — Substitute the following for the existing clause:

‘k) free from pests and their damages; and’

[Page 2, clause 4.2.1.2 a)] — Substitute the following for the existing clause:

‘a) infested or infected or shriveled; and’

(Page 2, clause 4.3) — Substitute the following for the existing clause:

‘4.3 Freedom from Microbes, Insects, etc

Walnuts in-shell or walnut kernels should be free from living insects and microbes and should be practically free from dead insects, insect fragments and rodent contamination visible to the naked eye (corrected, if necessary, for abnormal vision), with such magnification as may be necessary in any particular case. If the magnification exceeds 10X, this fact should be stated in the test report.’

(Page 3, clause 4.5) — Insert the following new clause:

‘4.6 The product shall conform to the microbiological requirements prescribed in Table 2.

Table 2 Microbiological Requirements for Walnuts
(Clause 4.6)

Sl No.	Characteristic	Requirement				Method of Test, Ref to IS
		Sampling Plan ¹⁾		Limit (cfu)		
		$\overbrace{\hspace{1.5cm}}^{n \hspace{0.5cm} c}$		$\overbrace{\hspace{1.5cm}}^{m \hspace{0.5cm} M}$		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	<i>Salmonella</i>	5	0	Absent/25g	NA	IS 5887 (Part 3)
ii)	<i>Listeria monocytogenes</i>	5	0	Absent/25g	NA	IS 14988 (Part 1)
iii)	<i>E. Coli</i> 0157 and Vero or Shiga toxin producing <i>E. coli</i>	5	0	Absent/25g	NA	IS 14397
iv)	<i>Vibrio cholerae</i>	5	0	Absent/25g	NA	IS 5887 (Part 5)

¹⁾For sampling plan, see Annex B.

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Amendment No. 1 to IS 7749 : 2016

(Page 5, Annex A) — Insert the following new annex:

ANNEX B

(Table 2)

SAMPLING PLAN FOR MICROBIOLOGICAL REQUIREMENTS

B-1 SAMPLING PLAN FOR MICROBIOLOGICAL REQUIREMENTS

The terms n , c , m and M used in this standard have the following meaning:

n = number of units comprising a sample.

c = maximum allowable number of units having microbiological counts above m for 2- class sampling plan and between m and M for 3- class sampling plan.

m = microbiological limit that separates unsatisfactory from satisfactory in a 2- class sampling plan or acceptable from satisfactory in a 3-class sampling plan.

M = microbiological limit that separates unsatisfactory from satisfactory in a 3-class sampling plan.

B-2 INTERPRETATION OF RESULTS

2-Class Sampling Plan (where n , c and m are specified)	3-Class Sampling Plan (where n , c , m and M are specified)
1. Satisfactory, if all the values observed are $\leq m$ 2. Unsatisfactory, if one or more of the values observed are $> m$ or more than c values are $> m$	1. Satisfactory, if all the values observed are $\leq m$ 2. Acceptable, if a maximum of c values are between m and M and the rest of the values are observed as $\leq m$ 3. Unsatisfactory, if one or more of the values observed are $> M$ or more than c values are $> m$

(FAD 10)

Publication Unit, BIS, New Delhi, India